**Examples of Excel Formulas**

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| **Topic** | **Formula** | **example** |
| Generate a random number | =Randbetween(#,#) | =randbetween(2,10)  Generates a random number between 2 and 10 |
| Calculate average | =average(cell:cell) | =average(C1:C12)  Average the numbers from C1 and Cell12 |
| Greatest value in a column of cells | =max(cell:cell) | =max(C1:C12)  Maximum number |
| Subtract numbers | =(cell-cell) | =(A1-A10)  Subtracts the two numbers |
| Dividing numbers | =(cell/cell) | =(A1/A10)  Divides the two numbers |
| Multiplying numbers | =(cell\*cell) | =(A1\*A10)  Multiples the two numbers |
| Calculate percent | =(amount/total)  Home tab **Percent Style** Button image | =(A1/100) Button image  Converts A1 to percent |
| Current date | =today() | =today()  Gives the current date |
| Current date and time | =now() | =now()  Gives the current data and time |
| Reference a cell from another worksheet | =worksheet!Cell | =sheet2!D21  The information from D21 sheet 2 will appear in highlighted cell |
| Count with exceptions | =countif(cell:cell,”>number”) | =countif(A2:A7,B10, “>51”)  Counts the number of times a number below 51 appears |
|  |  | =countif(A2:A7, “Failed”)  Counts the number of times the word failed appears |
|  |  | =countif(B5:B25,"S")  Counts all of the S’s |
|  |  |  |
| Count with exceptions | =countif(cell:cell,”>number”) | =countif(B5:B25,"U")  Counts all of the U’s |
|  |  | =countif(A1:A7,"<N")  Counts the number of cells whose values are in the first half of the alphabet (A-M) |
|  |  | =countif(C5:C25,">=93")  Counts A’s (100-93) |
|  |  | =countif(C5:C25,">=85")-countif(C5:C25,">92")  Counts B’s (85-92) |
|  |  | =countif(C5:C25,"<=66")  Counts F’s |
| Count all cells containing information. Ignores empty cells | =counta(cell) | =counta(B1:B5)  Counts all cells containing information in columns B1 through B5 |
| Convert celsius to fahrenheit  Convert miles to kilometers | =convert(cell,”C”,“F”)  =convert(cell, “mi”, “k”) | =convert(B1,“C”,“F”)  Converts B1 from Celsius to Fahrenheit  =convert(B1,“mi”,“k”)  Converts B1 from miles to kilometers |

Short Cuts

|  |  |
| --- | --- |
| Current Time | Ctrl and Colon |
| Current Date | Ctrl and Semicolon |
| AM/PM | Type time and a or p |